

Material Safety Data Sheet

May be used to comply with
 OSHA's Hazard Communication Standard,
 29 CFR 1910.1200. Standard must be
 consulted for specific requirements.

U.S. Department of Labor

Occupational Safety and Health Administration
 (Non-Mandatory Form)

Form Approved

OMB No. 1218-0072

REC'D NOV 19 1987

IDENTITY (As Used on Label and List)

EA 934NA (Rev. 1) Part B

Note: Blank spaces are not permitted. If any item is not applicable, or no
 information is available, the space must be marked to indicate that.

Section I

Manufacturer's Name

Hysol Aerospace & Industrial Products

Emergency Telephone Number

(415) 687-4201

Address (Number, Street, City, State, and ZIP Code)

2850 Willow Pass Road

Telephone Number for Information

(415) 687-4201 X362 X319

Pittsburg, CA 94565

Date Prepared

5/4/87

Signature of Preparer (optional)

Suzanne Franz

Section II — Hazardous Ingredients/Identity Information

NE=Not Established

NA=Not Available

Hazardous Components (Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
Diethylenetriamine (CAS# 111-40-0)	--	1 ppm	--	15
Triethylenetetramine (CAS# 112-24-3)	--	--	--	10

Section III — Physical/Chemical Characteristics

Boiling Point	405°F	Specific Gravity (H ₂ O = 1)	0.951
Vapor Pressure (mm Hg.)	0.37mm	Melting Point	NA
Vapor Density (AIR = 1)	3.48	Evaporation Rate (Butyl Acetate = 1)	Nil

Solubility in Water 100%

Appearance and Odor

Amber liquid

Section IV — Fire and Explosion Hazard Data

Flash Point (Method Used)	300°F NA	Flammable Limits	LEL	UEL
		NA	--	--

Extinguishing Media

Dry chemical or Halon fire extinguisher, or water spray, foam or fog.

Special Fire Fighting Procedures

Use self-contained breathing apparatus when fighting fires in confined areas.

Unusual Fire and Explosion Hazards

Dense smoke and toxic gasses may be liberated.

Section V — Reactivity Data

Stability	Unstable		Conditions to Avoid
	Stable	X	

Incompatibility (Materials to Avoid)
Strong oxidizing agents, strong Lewis or mineral acids.

Hazardous Decomposition or Byproducts

CO, NO_x, aldehydes, acids and undetermined organics.

Hazardous Polymerization	May Occur	X	Conditions to Avoid
	Will Not Occur		
AVOID mixing resin and curing agent in batches greater than 1 pound total. Do not heat mixed adhesive above 120° unless curing surfaces to be bonded. Failure to observe cautions may result in excessive heat build-up with the release of toxic gasses.			

Section VI — Health Hazard Data

Route(s) of Entry: Inhalation? yes Skin? yes Ingestion? yes

Health Hazards (Acute and Chronic)

Corrosive to skin and eyes. Vapors irritating and may cause chest discomfort and bronchitis symptoms.

Carcinogenicity: NTP? no IARC Monographs? no OSHA Regulated? no

Signs and Symptoms of Exposure

Chemical burn to skin and eyes; irritation to lungs.

Medical Conditions

Generally Aggravated by Exposure

NA

Emergency and First Aid Procedures

Flush skin and eye contact with plenty of water. Wash skin thoroughly with soap and water, rubbing alcohol or hand cleaner. Do not use solvents. Remove soiled clothing and wash before reuse. If irritation persists, see physician.

Section VII — Precautions for Safe Handling and Use**Steps to Be Taken in Case Material Is Released or Spilled**

Wear protective clothing, gloves and safety glasses. Scrape up and transfer to metal container. Wipe up remaining residue with solvents, observing solvent flammability cautions.

Waste Disposal Method

Dispose of as hazardous waste according to DOT hazard class. If not regulated by DOT, dispose of as ORM-E.

Precautions to Be Taken in Handling and Storing

Keep cool in accordance with label instructions.

Other Precautions

Follow recommended curing schedule.

Section VIII — Control Measures**Respiratory Protection (Specify Type)**

Not needed with good industrial ventilation

Ventilation	Local Exhaust	Recommended	Special	--
	Mechanical (General)	Recommended	Other	--

Protective Gloves

Impervious plastic or rubber

Eye Protection

Safety glasses or goggles

Other Protective Clothing or Equipment

As needed to protect skin and clothing

Work/Hygienic Practices

NA